Optional Lenses

Type		On-axis short fixed lens	Short zoom lens	Standard zoom lens	Long zoom lens	Ultra long zoom lens
Image						
Part number		LNS-W52	LNS-W53	LNS-S51	LNS-T50	LNS-T51
Zoom/focus		Fixed/power	x1.48/power	x1.56/power	x1.8/power	x1.67/power
Twin stack support		No	Yes	Yes	Yes	Yes
Focal length (mm/inch)		17.1/0.67	25.8 to 38.3/1.0 to 1.5	38.5 to 60.0/1.5 to 2.4	59.3 to 106.7/2.3 to 4.2	101.3 to 168.8/4.0 to 6.6
F-value		2.0	2.4 to 2.7	2.0 to 2.7	2.0 to 2.9	2.3 to 3.2
Lens aperture (ø mm/ø inch)		140/5.5	140/5.5	140/5.5	140/5.5	140/5.5
Lens weight (kg/lbs)		3.1/10.2	2.45/5.4	1.85/4.1	3.7/8.1	3.8/8.4
Projection light axis	H1:H2 (approx.)	1:1 (fixed)	21:-1 to -1:21	21:-1 to -1:21	6.65:-1 to -1:6.65	6.65:-1 to -1:6.65
	W1:W2 (approx.)	1:1 (fixed)	3:1 to 1:3	3:1 to 1:3	10.7:1 to 1:10.7	10.7:1 to 1:10.7
Throw ratio		0.8:1	1.2 to 1.8-1	1.8 to 2.8:1	2.8 to 5.0:1	4.8 to 8.0:1

Throw distance		m	ft	m		ft		m		ft		m		ft		m		ft	
Inches	W x H (m)	Fixed	Fixed	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.
50	1.1 x 0.6	0.86	2.82	1.3	2.0	4.2	6.5	2.0	3.1	6.4	10.2	3.0	5.6	9.9	18.2	5.4	8.9	17.8	29.2
60	1.3 x 0.7	1.04	3.42	1.6	2.4	5.1	7.8	2.4	3.7	7.7	12.3	3.7	6.7	12.0	22.0	6.5	10.7	21.2	35.0
80	1.8 x 1.0	1.41	4.63	2.1	3.2	6.9	10.5	3.2	5.0	10.4	16.5	4.9	9.0	16.2	29.5	8.6	14.2	28.1	46.5
100	2.2 x 1.2	1.77	5.83	2.7	4.0	8.7	13.2	4.0	6.3	13.1	20.6	6.2	11.3	20.3	36.9	10.7	17.7	35.0	58.0
120	2.7 x 1.5	2.14	7.04	3.2	4.8	10.5	15.8	4.8	7.6	15.8	24.8	7.5	13.5	24.5	44.4	12.8	21.2	41.9	69.6
150	3.3 x 1.9	2.69	8.85	4.0	6.1	13.2	19.9	6.0	9.5	19.8	31.1	9.4	17.0	30.7	55.7	15.9	26.5	52.2	86.8
200	4.4 x 2.5	3.60	11.86	5.4	8.1	17.7	26.6	8.1	12.7	26.5	41.6	12.5	22.7	41.1	74.4	21.2	35.3	69.4	115.7
250	5.5 x 3.1	-	-	6.7	10.1	22.1	33.3	10.1	15.9	33.3	52.1	15.7	28.4	51.5	93.1	26.4	44.0	86.6	144.5
300	6.6 x 3.7	-	-	8.1	12.2	26.6	40.0	12.2	19.1	40.0	62.5	18.9	34.1	61.9	111.8	31.7	52.8	103.9	173.3

Approximate projection distances are calculated based on lens specifications. Individual lenses may diverge from these figures by up to 5% due to slight variations in lens size and shape.

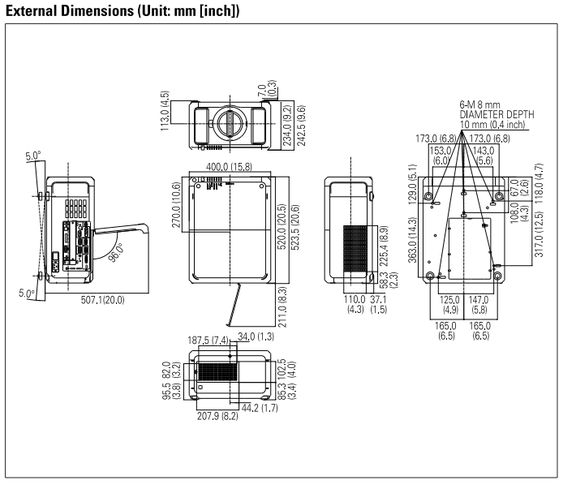
Terminals

Remote Control

Optional Boards

Type	DVI/D-sub 15-pin board	5BNC/S-video board	Dual-SDI board
Part number	POA-AMD23ADI	POA-AMD25VD3	POA-AMD17SDID
Input	Analog and digital	5BNC (RGBHV, Y-Pb/Cb-Pr/Cr,Video) and S-video	SD/HD-SDI *Not compatible with SD-SDI.
Image			

External Dimensions (Unit: mm [inch])



Specifications

Model name		PDG-DHT8000L
Panel		0.95" HD DLP® chip x 1
No. of pixels		2,073,600 (1920x1080 dots)
Projection lamp		330W VIDIM UHP x 2
Brightness (typical)*1		8,000 lm (with LNS-S51, "Dynamic" image, DynamicBlack™ Off)
Contrast*1		7,500:1 (with DynamicBlack™ High)
Uniformity*1		90% (corner to center)
Image setting		Lens shift Vertical Max: 6.65:-1 - -1:6.65,Horizontal Max: 10.7:1 - 1:10.7 (depends on Lens) Digital Keystone :U/D/L/R
Optional lens		LNS-W52/W53/S51/T50/T51 (Throw ratio: 0.8, 1.2-8.0)
Color wheels		Standard: 4seg RGBW for high brightness x 2 Standard accessory: 6seg RGBCMY for rich color reproduction x 2
Other Features		DynamicBlack™(auto iris according to image), Full 10bit circuit, Color management
Signal Terminal	Input 1	D-sub15 (RGB), DVI- D (HDCP), HDMI (v1.3 with Deep Color)
	Input 2	5BNC (RGBHV, Y-Pb/Cb-Pr/Cr, Video), Mini-Din4 (S-video)
	Input 3	Detachable terminal for system up
	Input 4	Detachable terminal for system up
Output		D-sub15 (RGB) Analog input only
Optional Terminal		DVI/D-sub, 5BNC
Control Port		RJ-45 wired LAN, D-sub 9pin (RS232C) In/Out, Wired R/C
Audio		None
Input signal compatibility		WUXGA/UXGA/WSXGA+/SXGA+/SXGA/WXGA/XGA/SVGA/VGA/MAC, 1080p-24/25/30/48/50/60/720p-50/60/575p/480p/575i/480i (depend on input)
Color systems		PAL / SECAM / NTSC / NTSC4.43 / PAL-M/N
Scanning frequency(Input)		H/V sync 15 to 120kHz/48 to 120Hz Dot clock 230 MHz (Analog)
Fan Noise		35dB (Eco1)
Voltage		100-240V AC (auto voltage)
Dimensions (W x H x D)		400.0 x 242.5 x 523.5 mm (15.8 x 9.6 x 20.6 inch)
Weight		19.6 kg (43.2 lbs) (without lens)
Power Consumption	100V	Normal: 963W, Eco1: 789W, Stand-by: 23W
	200V	Normal: 917W, Eco1: 761W, Stand-by: 22W
Main Accessories		Rich color repuroduction color wheel x 2 (High Brightness color wheel x 2 are installed in projector at shipping), Wireless/Wired remote unit x 1, AA type Batteries x 2, Owner's Manual (Quick Manual & CD-ROM), Real Color Manager Pro. CD-ROM x1, Computer Cable (Dsub15-Dsub15) x 1, AC Power Cord x 1, Fixing Bracket for AC Power Cord x 1, Cable tie for fixed cable x 3, PIN code label x 1

*1 Measurement, measuring conditions, and method of notation all comply with ISO 21118 international standards.
* Replacement lamp type POA-LMP145
* 'DLP' and 'DLP logo' are registered trademarks of Texas Instruments.
* Product appearance and specifications are subject to change without notice.
* All product names and company names are trademarks or registered trademarks of their respective companies.

All products manufactured by the Projector Division of SANYO's Digital System Company employ a quality management system that has undergone the inspection and registration process of the ISO 9001 international standard.

SANYO's Digital System Company has received ISO 14001 certification for the environmental management system used in its factory.

http://www.sanyo.com/projector

Pixelworks ICs are used in this projector

Caution: Please consult the instruction manual to ensure safe and proper operation of the product.

Distributed by:

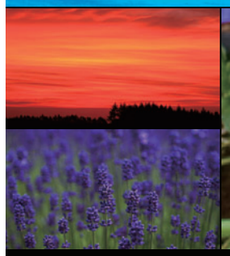
SANYO Electric Co., Ltd.
Digital System Company

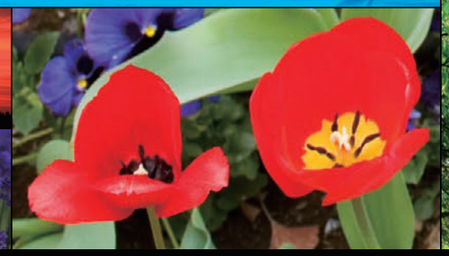
SML160

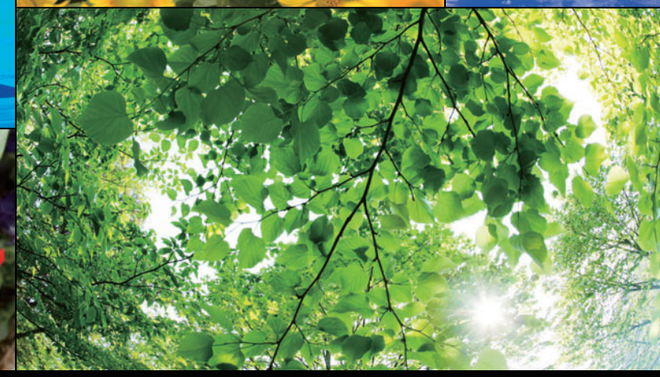
Multimedia Projector

SANYO

PDG-DHT8000L







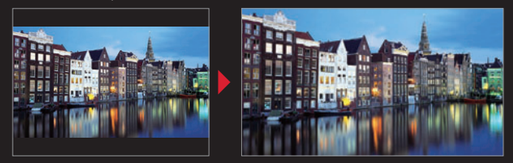
Full HD at best-in-class*, 8,000-lumen brightness

* As of product introduction in June 2010, for two-lamp, full HD, one-panel DLP® projectors.

Higher Brightness and Superior Picture Quality

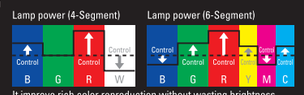
Full HD High Resolution

The PDG-DHT8000L employs a DLP® panel (with a 16:9 aspect ratio) with 1,920 x 1,080 pixels, allowing it to project HDTV 1080p signals at their native resolution. The DLP® panel helps convey ambience in projected scenes with exceptional fidelity, while full HD goes beyond conventional technology to reproduce images that are vibrantly alive and rich in emotion.

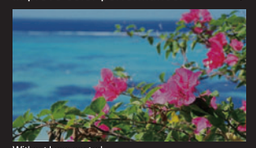


VIDI™ Technology

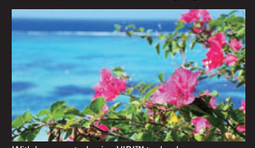
VIDI™ lamp valiable illumination controls the lamp power for each color wheel segment to maintain a high, stable level of brightness and significantly improve color performance.



It improve rich color reproduction without wasting brightness.



Without lamp control



With lamp control using VIDI™ technology

BrilliantColor™ Technology

Built-in BrilliantColor™ technology for rich color reproduction makes images more brilliant.

Best-in-class*, 8,000-lumen Brightness Excels on Large Screens (2 Lamps)

A bright, 330-watt lamp gives the PDG-DHT8000L a full 8,000 lumens of brightness, the highest in its class.* This makes the projector ideal for use in large halls, conference rooms, and classrooms, as well as in digital signage applications.

* As of product introduction in June 2010, for two-lamp, full HD, one-panel DLP® projectors.

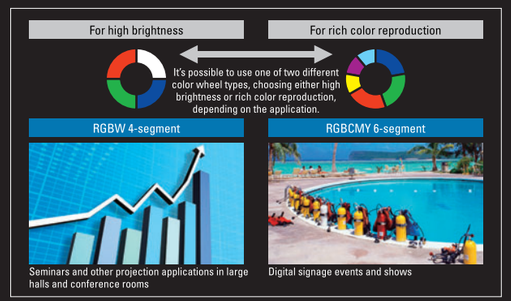
High 7500:1 Contrast

The PDG-DHT8000L's advanced optical system achieves high contrast* to project high-quality images with rich black reproduction, maximizing the quality of input video signals. * With DynamicBlack™ set to high.

Twin Color Wheel System

The PDG-DHT8000L features a twin color wheel system consisting of a 4-segment wheel (for maximum brightness) and a 6-segment wheel (for maximum color reproduction) that can be easily swapped out by the user. Use the 4-segment wheel to project tabular data or figures from a computer on a large screen with maximum brightness or choose the 6-segment wheel for vivid, beautiful color when picture quality is the top priority, for example when projecting photos or video.

Twin color wheels



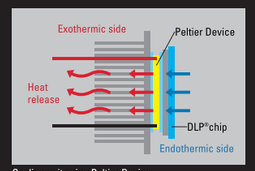
Seminars and other projection applications in large halls and conference rooms

Digital signage events and shows

High Reliability

Peltier Device

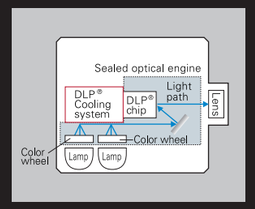
The DLP® chip's cooling system uses a high-reliability Peltier Device, allowing the projector to operate at temperatures ranging from 5°C to 40°C and dramatically improving the optical engine's reliability.



Cooling unit using Peltier Device

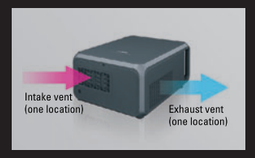
New Dust-resistant Sealed Optical Engine

A new and improved sealed optical engine cooling design prevents dust build-up to help maintain optimal brightness and contrast, providing an innovative solution for a traditionally difficult area of projector design and preventing the reductions in projection quality that can come with dust accumulation. Improved air control means more flexibility in using the projector in a variety of environments.



One-way Flow System

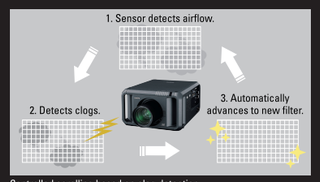
The PDG-DHT8000L concentrates airflow through one intake vent and one exhaust vent, both on the side of the projector, to solve dust-related problems and improve cooling reliability.



Active Maintenance Filter for Clean, Reliable Projection

The PDG-DHT8000L is equipped with a replaceable Active Maintenance Filter featuring the industry's longest-lasting* 25,000-hour automatic reel filter cartridge to keep dust out of the lamp area while still allowing enough airflow to cool the lamp. Benefits include improved reliability, increased dust resistance, and more time between filter replacements. And Filter-less use is also available.

* As of planned product introduction in June 2010. Estimated filter replacement time is 25,000 hours (in Normal mode) or 35,000 hours (in Eco 1 mode). This value is calculated by an original SANYO test based on JIS D0207 test methods with Normal mode selected.



Controlled scrolling based on clog detection

Easier Replacement

Lamp and twin color wheel replacement has been simplified to make maintenance easier. The lamp is easily replaced from above.

Fixing Bracket for AC Power Cord

The PDG-DHT8000L's Removable power cord latch keeps the cord from being disconnected from the projector, even if somebody trips on it.

Versatile Installation

Edge Blending and Color Matching

The PDG-DHT8000L is equipped with an edge blending function that creates seemingly boundary-less images with multi-image display possibilities. A built-in color matching function corrects variations in color reproduction when using more than one projector.

Left and right colors differ, and the overlap area is noticeably brighter.

Boundary-less images

Adjustable area for color reproduction
*Simulated images.

Power Lens Shift

Featuring both vertical and horizontal lens shift* (vertical max: ±67%; horizontal max: ±41%), the PDG-DHT8000L enables intuitive operation for easy on-site setup. The lens can be shifted back to the center by pressing and holding the lens shift button. * Dependent on Lens

Interchangeable Lenses (Optional)

A wide lens selection ranging from short- to long-focus lenses allows projection in various locations. Lenses simply screw into the mount — no additional tools are needed.

Lens center layout (symmetry)

A symmetrical design with the lens in the center of the projector has been adopted to suit ceiling installation in particular. This allows the projector and the screen to be centered together, which not only makes design and installation much easier, but also offers a sense of greater stability through symmetry of the positioning between projector and screen.

Vertical Installation

The PDG-DHT8000L features vertical 360-degree tilt angle projection, allowing it to be used from the ceiling or floor and freeing users from the constraints of traditional projector installations.

Picture-in-Picture Mode and Picture-by-Picture Mode

The PDG-DHT8000L is capable of projecting two images simultaneously using built-in Picture-in-Picture mode or Picture-by-Picture mode.

Picture-in-Picture

Picture-by-Picture

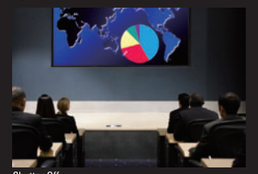
Useful Features

Silent Design (35 dB* in Eco Mode)

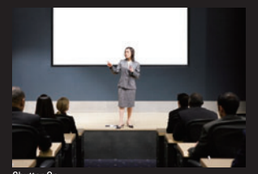
Thanks to its use of a Peltier element and a redesigned cooling system, the PDG-DHT8000L generates just 35 dB while delivering 8,000 lumens of high-brightness performance. *During Eco 1 mode operation.

Mechanical Shutter

The PDG-DHT8000L also features a mechanical shutter system that is popular for a variety of elite, professional uses. This remarkable projector fills the needs of a host of demanding business venues, including meeting, entertainment, and promotional applications. It's a super nova in a star-studded selection of SANYO Portable projectors. You can also select effects designed to smooth your presentation, for example by gradually fading out the projected image when the mechanical shutter is closed or gradually fading it in when the shutter is opened.



Shutter Off



Shutter On

Frame Lock Function

It is possible to synchronize the image output frequency with the camera frequency. Neither the belt of RGB nor the flicker are generated. It is also possible to synchronize it with the input signal frequency automatically!

Illuminated Projector Controls and Remote Control

Projector buttons and inputs are illuminated for easy operation in dark settings and locations where you can't turn on the lights in the projection area. The remote control buttons are also illuminated for operator convenience.

Standard Wired LAN Network Control Function

The PDG-DHT8000L features a centralized management system that can be easily configured.

Anti-theft Lens Screw and Security Wire-ready Handle

The lens is held in place with a safety screw to prevent theft and keep it from falling out of the projector. Additionally, the projector itself can be secured against the possibility of theft by attaching a security wire to its handle.

Video Delay

It reduces a misalignment between the video and the sound generated due to the compatibility of the devices. *A certain function become disabled by using this function.

Closed Captioning Support (NTSC)

Direct Off, Direct On Function

product design award 2010

PICTURE BY DLP TEXAS INSTRUMENTS

8,000-lumen Full HD Projector

PDG-DHT8000L